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Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files

DATE: 11 December 1953

FROM :

DCD 7 8 MAY 1980 018373
ORIG OFFICE 033 56 02
ORIG CLASS M 1 C
JUST 22 NEXT REV 2010 AUTH: HR 70-2

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SUBJECT: Contract XG-866 on GM-1 Engine Drive Unit

1. The progress of the GM-1 at the Jacobsen Manufacturing Company is moving rather slowly due to the pressure being applied to the UGP-12 production. During the past month, the Company fabricated a gear train and link belt coupling unit for use between the prime mover and the GN-58. Starting tests that were made indicated that the high rotational inertia of the GN-58 and the high engine speeds of the drive unit caused excessive torque in the chain drive coupling mechanism. These excessive forces caused twisting of the square coupling shafts.

2. Jacobsen did have the model assembled and operable. The operating demonstration indicated that the unit will probably be satisfactory and desirable but considerable study of the large forces exerted and the subsequent strain of the parts will be necessary. [redacted] engineer in charge of this project, requested that an additional 30 days be granted in order to dig into the problem more thoroughly and to see if drive unit fabricated of hardened steel couldn't be made up. This was agreeable to all concerned and the GM-1 will be investigated during the next trip to the contractor's plant.

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